



## SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 31-Jul-2024

Revision Number 1

**100-2073 100-2074 - Human Recombinant Gremlin-1, ACF**

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

**Document Number** 10000029987  
**Product Name** Human Recombinant Gremlin-1, ACF  
**Pure substance/mixture** Substance

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Laboratory reagent  
**Uses advised against** No information available

#### 1.3. Details of the supplier of the safety data sheet

##### **Manufacturer**

STEMCELL Technologies SARL  
40 Rue des Berges, Miniparc Polytec, Bâtiment Sirocco, 38000 Grenoble, France  
+33 (0) 4 76 04 75 30  
STEMCELL Technologies Germany GmbH  
Stolberger Str. 200, 50933, Köln, Germany  
+33 (0) 4 76 04 75 30  
STEMCELL Technologies UK Ltd.  
Building 7100, Cambridge Research Park, Beach Drive, Waterbeach, Cambridge, UK, CB25 9TL  
+33 (0) 4 76 04 75 30

For further information, please contact

#### 1.4. Emergency telephone number

**Emergency Telephone** No information available

**Emergency Telephone - \$45 - (EC)1272/2008**

**Europe** 112

### Section 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]



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### Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.3. Other hazards

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Synonym

The product contains no substances which at their given concentration, are considered to be hazardous to health

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|              |                                                                                                                         |
|--------------|-------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Remove to fresh air.                                                                                                    |
| Eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.<br>Consult a physician. |
| Skin contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.                    |
| Ingestion    | Clean mouth with water and drink afterwards plenty of water.                                                            |

### 4.2. Most important symptoms and effects, both acute and delayed

|          |                           |
|----------|---------------------------|
| Symptoms | No information available. |
|----------|---------------------------|

### 4.3. Indication of any immediate medical attention and special treatment needed

|                    |                        |
|--------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|--------------------|------------------------|

## Section 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media



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**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** No information available.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** No information available.

#### 5.3. Advice for firefighters

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### Section 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

#### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

### Section 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling



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|                                                                          |                                                                                     |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Advice on safe handling                                                  | Ensure adequate ventilation.                                                        |
| General hygiene considerations                                           | Handle in accordance with good industrial hygiene and safety practice.              |
| <u>7.2. Conditions for safe storage, including any incompatibilities</u> | Store in accordance with information listed on the Product Information Sheet (PIS). |
| <u>7.3. Specific end use(s)</u>                                          |                                                                                     |
| Identified Uses                                                          |                                                                                     |
| Risk Management Methods (RMM)                                            | The information required is contained in this Material Safety Data Sheet.           |

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

|                                          |                                                                                                                                                             |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure Limits                          | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| Derived No Effect Level (DNEL)           | No information available.                                                                                                                                   |
| Predicted No Effect Concentration (PNEC) | No information available.                                                                                                                                   |

### 8.2. Exposure controls

#### Personal protective equipment

|                                 |                                                                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection             | No special protective equipment required.                                                                                                                                |
| Skin and body protection        | No special protective equipment required.                                                                                                                                |
| Respiratory protection          | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| General hygiene considerations  | Handle in accordance with good industrial hygiene and safety practice.                                                                                                   |
| Environmental exposure controls | No information available.                                                                                                                                                |



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## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|                |                          |
|----------------|--------------------------|
| Physical state | Solid                    |
| Appearance     | No information available |
| Color          | No information available |
| Odor           | No data available.       |
| Odor threshold | No data available        |

| Property                       | Values                   | Remarks • Method |
|--------------------------------|--------------------------|------------------|
| pH                             | No data available        | None known       |
| Melting point / freezing point | No data available        | None known       |
| Boiling point / boiling range  | No data available        | None known       |
| Flash point                    | No data available        | None known       |
| Evaporation rate               | No data available        | None known       |
| Flammability (solid, gas)      | No data available        | None known       |
| Flammability Limit in Air      |                          | None known       |
| Upper flammability limit:      | No data available        |                  |
| Lower flammability limit:      | No data available        |                  |
| Vapor pressure                 | No data available        | None known       |
| Vapor density                  | No data available        | None known       |
| Relative density               | No data available        | None known       |
| Water solubility               | No data available        | None known       |
| Solubility(ies)                | No data available        | None known       |
| Partition coefficient          | No data available        | None known       |
| Autoignition temperature       | No data available        | None known       |
| Decomposition temperature      | No data available        | None known       |
| Kinematic viscosity            | No data available        | None known       |
| Dynamic viscosity              | No data available        | None known       |
| Explosive properties           | No information available |                  |

Oxidizing properties No information available

### 9.2. Other information

|                   |                          |
|-------------------|--------------------------|
| Softening point   | No information available |
| Molecular weight  | No information available |
| Molecular formula | No information available |
| VOC Content (%)   | No information available |
| Liquid Density    | No information available |
| Bulk density      | No information available |

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity



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### 100-2073 100-2074 - Human Recombinant Gremlin-1, ACF

**Reactivity** No information available.

#### 10.2. Chemical stability

**Stability** Stable under recommended transport or storage conditions.

#### **Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

#### 10.4. Conditions to avoid

**Conditions to avoid** None known based on information supplied.

#### 10.5. Incompatible materials

**Incompatible materials** None known based on information supplied.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** None known based on information supplied.

### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

##### Information on likely routes of exposure

##### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

##### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.



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Revision Number 1

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### Numerical measures of toxicity

#### Acute toxicity

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity.  
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.  
 100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.  
 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).  
 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Product Information

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

Product Information

**Serious eye damage/eye irritation** No information available.

Product Information

**Respiratory or skin sensitization** No information available.

Product Information

**Germ cell mutagenicity** No information available.

Product Information

**Carcinogenicity** No information available.

Product Information

**Reproductive toxicity** No information available.

Product Information

**STOT - single exposure** No information available.

Product Information

**STOT - repeated exposure** No information available.

Product Information

**Aspiration hazard** No information available.

## Section 12: ECOLOGICAL INFORMATION



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#### 12.1. Toxicity

|                          |                                                                             |
|--------------------------|-----------------------------------------------------------------------------|
| Ecotoxicity              | The environmental impact of this product has not been fully investigated.   |
| Unknown aquatic toxicity | Contains 0 % of components with unknown hazards to the aquatic environment. |

#### **Product Information**

#### 12.2. Persistence and degradability

|                               |                           |
|-------------------------------|---------------------------|
| Persistence and degradability | No information available. |
|-------------------------------|---------------------------|

#### 12.3. Bioaccumulative potential

|                 |                           |
|-----------------|---------------------------|
| Bioaccumulation | No information available. |
|-----------------|---------------------------|

#### 12.4. Mobility in soil

|                  |                           |
|------------------|---------------------------|
| Mobility in soil | No information available. |
|------------------|---------------------------|

#### 12.5. Results of PBT and vPvB assessment

|                         |                           |
|-------------------------|---------------------------|
| PBT and vPvB assessment | No information available. |
|-------------------------|---------------------------|

#### 12.6. Other adverse effects

|                       |                           |
|-----------------------|---------------------------|
| Other adverse effects | No information available. |
|-----------------------|---------------------------|

### Section 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

|                                     |                                                                                                                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging              | Do not reuse empty containers.                                                                                  |

### Section 14: TRANSPORT INFORMATION

#### IMDG

|                |               |
|----------------|---------------|
| 14.1 UN Number | Not regulated |
|----------------|---------------|





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|                                                                          |                          |
|--------------------------------------------------------------------------|--------------------------|
| 14.2 UN proper shipping name                                             | Not regulated            |
| 14.3 Transport hazard class(es)                                          | Not regulated            |
| 14.4 Packing Group                                                       | Not regulated            |
| 14.5 Marine pollutant                                                    |                          |
| Environmental hazard                                                     |                          |
| 14.6 Special Provisions                                                  | None                     |
| 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code | No information available |

#### RID

|                                 |               |
|---------------------------------|---------------|
| 14.1 UN Number                  | Not regulated |
| 14.2 UN proper shipping name    | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing Group              | Not regulated |
| 14.5 Environmental hazard       |               |
| 14.6 Special Provisions         | None          |

#### ADR

|                                 |               |
|---------------------------------|---------------|
| 14.1 UN Number                  | Not regulated |
| 14.2 UN proper shipping name    | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing Group              | Not regulated |
| 14.5 Environmental hazard       |               |
| 14.6 Special Provisions         | None          |

#### IATA

|                                 |               |
|---------------------------------|---------------|
| 14.1 UN Number                  | Not regulated |
| 14.2 UN proper shipping name    | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing Group              | Not regulated |
| 14.5 Environmental hazard       |               |
| 14.6 Special Provisions         | None          |

## Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorizations and/or restrictions on use:



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This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

### International Inventories

|               |                 |
|---------------|-----------------|
| TSCA          | Does not comply |
| DSL/NDSL      | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS          | Does not comply |
| IECSC         | Does not comply |
| KECL          | Does not comply |
| PICCS         | Does not comply |
| AICS          | Does not comply |

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

Chemical Safety Report No information available

## Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

SVHC: Substances of Very High Concern for Authorization:

### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

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### Disclaimer

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